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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,552	07/06/2005	Mitsuhiro Yamamoto	274746US2PCT	8157
22850 7590 11/28/2007 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.			EXAMINER	
1940 DUKE ST	TREET	THER & RESSERENCE.	HAILEMARIAM, EMMANUEL	
ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
			2629	
			NOTIFICATION DATE	DELIVERY MODE
			11/28/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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,	Application No.	Applicant(s)				
	10/541,552	YAMAMOTO, MITSUHIRO				
Office Action Summary	Examiner	Art Unit				
*	Emmanuel Hailemariam	2629				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed , the mailing date of this communication. (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on 10/04 2a)    This action is <b>FINAL</b> .	action is non-final.  nce except for formal matters, pro					
Disposition of Claims						
4) Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers	vn from consideration.					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction  11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	ite				

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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1- 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Ha et al. (US 20040207593).

As to claim 1, Ha discloses an array substrate (fig.1) (22)) for a flat display device [0011] comprising: a display unit (fig.1)(10)) in which a pixel is placed at each of intersections between a plurality of signal lines (fig.1-DL); and a plurality of scan lines (fig.1GL), the signal and scan lines being routed in the form of a matrix (fig.1 (12)); a plurality of output lines configured to output data signals to the signal lines, respectively (fig.1-PD, [0012], [0016]; a plurality of switches placed between the output lines and the signal lines to connect each output line to n signal lines (n is an integer equal to or greater than two) one after another within one horizontal period (fig.1(14), [0106]);n switch control signal lines (fig.2(29)and fig.18 (69)) configured to supply control electrodes of the switches with control signals for controlling on and off states thereof (fig.2 (C1-Cn), and a plurality of electrode patterns configured to connect the control electrode of each switch to any one of the n switch control signal lines (fig.2 item gate

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line DL1 to DLn); wherein the electrode patterns each two-dimensionally overlap all of the switch control signal lines and have substantially identical shapes [0014] ( fig.2 item gate line DL1 and DLm + 1 wherein the gate lines show in figure .2 overlap with the control signal lines C1-Cm and are the same shape).

As to claim 2, Ha discloses that the electrode patterns and the switch control signal lines are stacked with an insulating layer interposed there (fig.1 and 2, and 5A-8B), and are electrically connected to each other by contact holes formed in the insulating layer (fig.2 items C1-Cm and DL1-DLm+1) wherein said feature is inherent to the signal connection between lines C1-Cm and the gate lines for switches DL1 and DLm+1).

# Response To Arguments

3. Applicant's arguments with respect to the claims 1-2 have been fully considered and are in part persuasive.

Applicant argues (a) Ha et al fails to teach the feature wherein the electrode patterns each two-dimensionally overlap *the entire* switch control signal lines and have substantially identical shapes.

The Examiner disagrees for the following reasons.

Per (a) Ha teaches wherein the electrode patterns (C1-DL1), (C2- DL2) each two-dimensionally overlap the entire switch control signal lines (C1...Cm) and have substantially identical shapes, as shown in figure 2. Wherein the line identified as the gate line for switch DL1 represents the claimed electrode patterns and the gate line

overlaps with the control signal line Cm. The shapes of the gate lines are shown to be identical, and therefore the electrical patterns have substantially identical shapes.

Furthermore, the pattern lines (C1-DL1)... are all two dimensional.

Applicant argues (b) Edwards fails to teach the feature wherein the electrode patterns each two-dimensionally overlap the entire switch control signal lines and have substantially identical shapes.

The Examiner agrees. The rejection in view of Edwardds has been withdrawn.

### Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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### Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Hailemariam whose telephone number is 571-270-1545. The examiner can normally be reached on M-F 8:00am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amare Mengistu can be reached on 571-272-7674. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**Emmanuel Hailemariam** 

10/19/07

AMARE MENGISTU

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CUPERVISORY PATENT EXAMINER